

### **Remarks**

This is in response to the first Office Action mailed July 23, 2004.

The Applicant has hereinabove amended the drawings to correct minor errors in FIGS. 5 and 8. The specification at page 15 has been amended to better conform to the claimed subject matter. Claims 1-6 and 9-13 have been amended. These broadening and clarifying amendments are proper, do not introduce new matter, serve to better set forth the subject matter regarded as the invention by the Applicant, and place the application in proper condition for reconsideration and allowance.

### **Objection to Drawings**

The first Office Action objected to the drawings on the basis that in FIG. 5, step 268 failed to have a close parenthesis “)” and FIG. 8, “OH” block 236 failed to have a right vertical bar. These errors have been corrected by amendment above, and the Applicant apologizes for the inconvenience to the Examiner as a result of these errors.

### **Rejection of Claims Under 35 U.S.C. §102(b)**

The first Office Action rejected claims 1-6 and 9-18 under 35 U.S.C. §102(b) as being anticipated by U.S. Patent No. 5,146,578 issued to Zangenehpour (“Zangenehpour ‘578”). This is respectfully traversed.

Zangenehpour ‘578 generally monitors for receipt of sequential addresses in read commands from CPU 12 and, so long as such sequential requests continue, increasingly larger amounts of data are prefetched to cache 22. Once a non-sequential request is

received, no further prefetching occurs. See Zangenehpour '578 FIG. col. 3, lines 4-45; col. 4, lines 44-50; col. 6, lines 50-54.

The Applicant notes that Zangenehpour '578 failed to anticipate the language of original independent claim 1 on the basis that Zangenehpour '578 *initially switches* to the use of prefetching based on an initial comparison between the most recently received command and just one other command (the penultimate read command), not multiple previous commands as originally claimed.

Nevertheless, the Applicant has elected to enter broadening and clarifying amendments to claim 1 so that the claim now recites, *inter alia*, switching from nonlocal mode to local mode “when a data sector address of a most recently received read command corresponds to at least one of said *non-sequential data sector ranges*.” Zangenehpour '578 fails to disclose such operation; indeed, Zangenehpour '578 *stops* the prefetching of data when non-sequential data sector ranges are encountered.

Accordingly, the Applicant submits that claim 1, as well as the claims depending therefrom, define subject matter that is patentably distinct over Zangenehpour '578 as well as the other art of record. Reconsideration and withdrawal of the rejection of these claims are accordingly solicited.

Zangenehpour '578 is similarly deficient with regard to the recited “means for switching” element of independent claim 9. Accordingly, reconsideration and withdrawal of the rejection of claim 9, and for the claims depending therefrom, are also respectfully solicited.

### **Rejection of Claims Under 35 U.S.C. §103(a)**

The first Office Action rejected claims 7-8 under 35 U.S.C. §103(a) as being obvious over Zangenehpour '578 in view of Applicant's Admitted Prior Art (AAPA). This rejection is respectfully traversed on the basis that claims 7-8 are believed to be patentable as depending from a patentable base claim for the reasons set forth above.

### **Information Disclosure Statement**

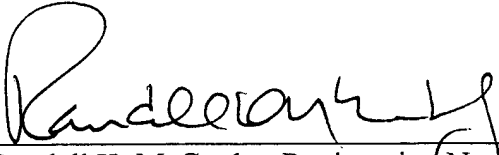
An information disclosure statement (IDS) was filed with the application, but the first Office Action did not acknowledge the same. For convenience, a copy of this IDS (sans references since all are U.S. patents) is being included herewith. The Examiner is invited to contact the below signed attorney should any questions arise concerning this matter.

### **Conclusion**

The Applicant respectfully requests reconsideration and allowance of all the pending claims in the application. This is intended to be a complete response to the first Office Action mailed July 23, 2004.

Should any questions arise concerning this response, the Examiner is invited to contact the below listed Attorneys.

Respectfully submitted,

By:   
Randall K. McCarthy, Registration No. 39,297  
Mitchell K. McCarthy, Registration No. 38,794  
Fellers, Snider, Blankenship, Bailey and Tippens, P.C.  
Bank One Tower  
100 N. Broadway, Suite 1700  
Oklahoma City, Oklahoma 73102  
Telephone: (405) 232-0621  
Facsimile: (405) 232-9659  
Customer No. 33900

### **Amendments to the Drawings**

The attached sheets of drawings include changes to FIG. 5 (sheet 4/6) and FIG. 8 (sheet 6/6). These sheets of drawings replace the original sheets 4/6 and 6/6. In FIG. 5, a previously omitted close parenthesis “)” has been added in step 268. In FIG. 8 a right vertical bar has been added for “OH” block 236.

Attachment: Replacement Sheets  
Annotated Sheets showing changes



EXPRESS MAIL RECEIPT NO. EU374494712US  
RECEIVED ON MAY 14, 2002

*PATENT*  
DKT. P1608US01

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: **Kenny T. Coker, Edwin S. Olds and Jack A. Mobley**  
Assignee: **SEAGATE TECHNOLOGY LLC**  
Application No.: **10/080,813** Group No.: **2185**  
Filed: **February 22, 2002** Examiner: **Unknown**  
For: **DYNAMIC DATA ACCESS PATTERN DETECTION IN A BLOCK DATA STORAGE  
DEVICE**

**COPY**

**Commissioner for Patents**  
**Washington, D.C. 20231**

**INFORMATION DISCLOSURE STATEMENT**

**List of Sections Forming Part of This Information Disclosure Statement**

The following sections are being submitted for this Information Disclosure Statement:

1. Preliminary Statements
2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)
3. Copies of Listed Information Items Accompanying This Statement
4. Identification of Person(s) Making This Information Disclosure Statement

**Section 1. Preliminary statements**

Applicants submit herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. section 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

## Section 2.

## Forms PT B/08A and 08B (substitute for Form P 1449)

PTO/SB/08A (08-00)

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Approved for use through 10/31/2002; OMB 0651-0031

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

Use as many sheets as necessary)

Sheet 1 of 2

## Complete if Known

Application No.: 10/080,813Filing Date: February 22, 2002First Named Inventor: Edwin S. Olds, et al.Group Art Unit: 2185Examiner Name: UnknownAttorney Docket Number: P1608US01

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document Number Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	5,313,626	Jones, et al.	05-17-1994	COPY
	AB	5,530,829	Beardsley, et al.	06-25-1996	
	AC	5,570,332	Heath, et al.	10-29-1996	
	AD	5,584,007	Ballard	12-10-1996	
	AE	5,636,355	Ramakrishnan, et al.	06-03-1997	
	AF	5,664,145	Apperley, et al.	09-02-1997	
	AG	5,727,183	Takahashi	03-10-1998	
	AH	5,829,018	Moertl et al.	10-27-1998	
	AI	5,875,455	Ito	02-23-1999	
	AJ	5,983,319	Ito	11-09-1999	
	AK	6,164,840	Lynch	12-26-2000	
	AL	6,189,080	Ofer	02-13-2001	
	AM	6,263,408	Anderson, et al.	07-17-2001	

## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>



PTO/SB/08A (08-00)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 2**Complete if Known**Application No.: 10/080.813Filing Date: May 14, 2002First Named Inventor: Edwin S. Olds, et al.Group Art Unit: 2185Examiner Name: UnknownAttorney Docket Number: P1608US01**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Office <sup>2</sup>	Foreign Patent Document Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>

**COPY**

Examiner Signature	Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.



**Section 3. Copies of Listed Information Items Accompanying This Statement**

Legible copies of all items listed in Forms PTO/SB/08A and 08B (substitute for Form PTO-1449) accompany this information statement.

**Section 4. Identification of Person Making This Information Disclosure Statement**

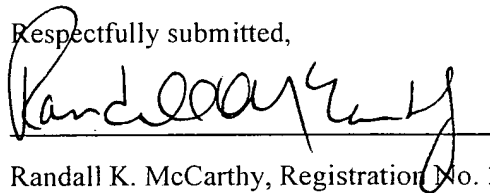
The person making this certification is:

- a. the practitioner who signs below on the basis of the information supplied by the inventor(s) and in the practitioner's file.

COPY

Date: 5/14/02

Respectfully submitted,



Randall K. McCarthy, Registration No. 39,297  
Bill D. McCarthy, Registration No. 26,772  
Daniel P. Dooley, Registration No. 46,369  
Martin A. Weeks, Registration No. 37,753  
Crowe & Dunlevy  
1800 Mid-America Tower  
20 North Broadway  
Oklahoma City, OK 73102  
Telephone: (405) 235-7700  
Fax: (405) 239-6651



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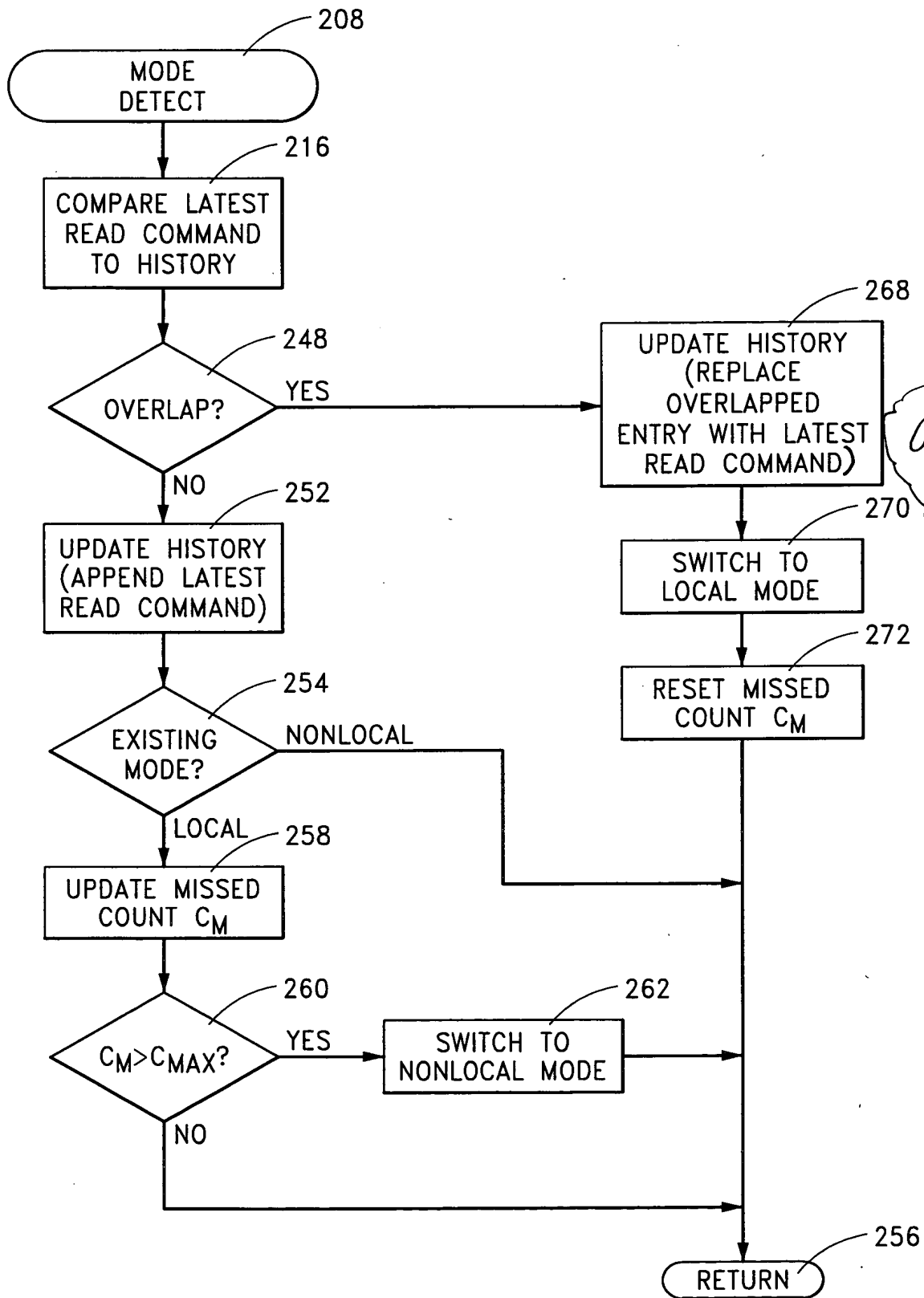


FIG. 5



6/6

